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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,313	04/21/2004	Yiming Huai	3095P	5668
75	90 09/11/2006		EXAM	INER
SAWYER LAW GROUP LLP			MENZ, DOUGLAS M	
P.O. Box 51418 Palo Alto, CA			ART UNIT PAPER NUMBER	
			2891	
		DATE MAILED: 09/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/829,313	HUAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Douglas M. Menz	2891			
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with the	he correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply to divill apply and will expire SIX (6) MONTHS ute. cause the application to become ARAND.	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. \$ 133)			
Status					
1)⊠ Responsive to communication(s) filed on 21	June 2006.				
_	nis action is non-final.				
3)☐ Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under					
Disposition of Claims					
4) Claim(s) 1-42 is/are pending in the application 4a) Of the above claim(s) 22-42 is/are withdrast 5) Claim(s) 1-20 is/are allowed. 6) Claim(s) 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on 21 April 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the B	a)⊠ accepted or b)□ objected e drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list. 	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/17/04,5/22/06	4) Interview Sumn Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date			

DETAILED ACTION

Election/Restrictions

Applicant's election of Group I, claims 1-21, in the reply filed on 6/21/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 21 is rejected under 35 U.S.C. 102(e) as being anticipated by Hou et al. (US 6809909).

Regarding claim 21, Hou discloses a magnetic element comprising:

a free layer (22, Fig. 1) being ferromagnetic and having a free layer magnetization (Col. 3);

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a spacer layer (20, Fig. 1), the spacer layer being nonmagnetic (Col. 3); and a pinned layer (18, Fig. 1), the spacer layer residing between the pinned layer and the free layer (Fig. 1), the pinned layer including a first ferromagnetic layer (24, Fig. 1) having a first magnetization, a second ferromagnetic layer (28, Fig. 1) having a second magnetization, and a nonmagnetic spacer layer (26, Fig. 1), the nonmagnetic spacer layer being conductive and residing between the first ferromagnetic layer and the second ferromagnetic layer such that the first magnetization and the second magnetization are antiparallel (Col. 3), the first ferromagnetic layer being doped with at least a first material such that a first spin diffusion length of the first ferromagnetic layer is reduced, the second spin diffusion length of the second ferromagnetic layer is reduced (Col. 3);

wherein the magnetic element is configured to allow the free layer magnetization to change direction due to spin transfer when a write current is passed through the magnetic element (Col. 3).

Allowable Subject Matter

Claims 1-20 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Art Unit: 2891

There is no teaching or suggestion in the art of record disclosing a magnetic element comprising a spin depolarization layer being configured to depolarize at least a portion of a plurality of electrons passing through the spin depolarization layer in combination with all other structural limitations of claim 1. Therefore, independent claim 1 is deemed allowable along with its dependent claims 2-20.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2891

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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